KON, Mirko; JEVRIC, Sava; VIATKOVIC, Vida

Sedimentation of the erythrocytes (3%) in pulmonary tuberculosis after a load. Tuberkuloza, Beogr. 11 nc. 4:538-540 O-D '54.

1. Institut za tuberkulozu JNA, nacelnik: san. pukovnik prof. dr J. Studic.

(TUBERCULOSIS PULMONARY blood)

(BLOOD SEDIMENTATION)

Case of balooned cavern. Voj. san. pregl., Beogr. 14 no.3:
143-146 Mar 57.

1. Grudna klinika VMA.
(TUBERCULOSIS, PULMONARY, case report
balooned cavern (Ser))

: YUJOSLAVIA Country Q-5 : Farm Animals. Category The Honey Lee. : Ref Zhur-Biol., No 16, 1958, 74156 Abs. Jour : Vlatkovich, B. D. Author Institut. : Eees of the Sjenica Dale and Pestera Plateau and the Conditions Prevailing in Title Apiculture. : Acta veterin., 1957, 7, No 2, 3-18 Orig Pub. Data are presented on the biometry of local bees (Serbia) as well as a list of honey Abstract rlants. 1/1 Card:

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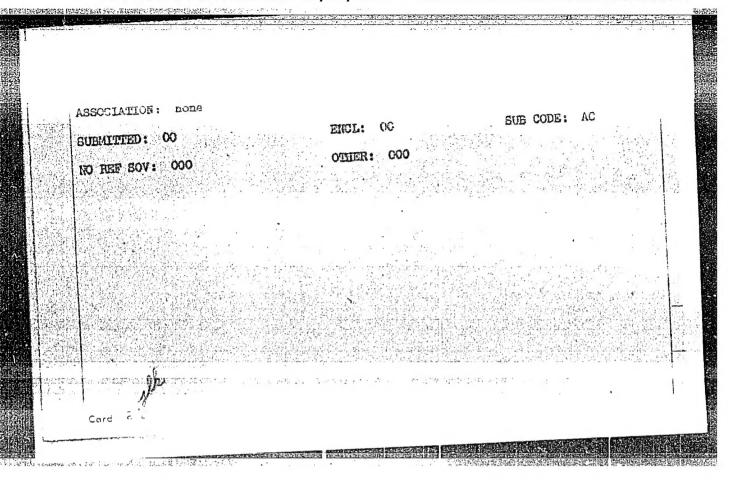
VLAYAKHER, L.Ya.; DOEROKHOTOV, V.N.

Further investigations on the topography of mitosis of mouse carcinoma; further investigations on the topography of mitosis of mouse carcinoma; structure of mitotic foci. Doklady Akad. nauk SSSR 81 no.6:1143-1145 (CIML 21:5) 21 Dec 51.

1. Presented by Academician A.I. Abrikosov 30 October 1951.
2. Institute of Experimental Biology, Academy of Medical Sciences USSR.

ENT(d)/24T(m)/FA/FA(b)/T-2/ENF(h) BU/0010/65/000/003/0002/0002 ACCESSION NR: AP5010395 AUTHOR: Vlaychev, A. (Engineer) 13 "Komete-3" - stendard [new Bulgarian glider] TITLE: SOURCE: Aviatsiya i kosmonavtika, no. 3, 1965, 2 TOPIC TAGS: glider, aircraft performance, aircraft specification ABSTRACT: During 1957 the Central Committee of DOS() announced a contest for the designing of a single-seater glider of high performance. Docent Lyuben Panov and docent Dimit"r Penchovski won the competition. Based on this design, the designoffice personnel (Lyuben Panov, Dimit"r Panchoveki, Rashko Radomirov, and Andrey Vlaychev) came up with a final design of the "Kometa-standart," on which was based the next version, the Kometa-2. Finally, in 1963 the last type, the Kometa-5, was produced. It has the following main characteristics: wingspan, 14.95 m, fuselage produced. It has the following main characteristics: wingspan, 14.95 m, fuselage produced. It has the following main characteristics: wingspan, 14.95 m, fuselage produced. It has the following main characteristics: wingspan, 14.95 m, fuselage produced. It has the following main characteristics: wingspan, 14.95 m, fuselage produced. It has the following main characteristics: wingspan, 14.95 m, fuselage produced. It has the following main characteristics: wingspan, 14.95 m, fuselage produced. It has the following main characteristics: wingspan, 14.95 m, fuselage produced. It has the following main characteristics: wingspan, 14.95 m, fuselage produced. It has the following main characteristics: wingspan, 14.95 m, fuselage produced. It has the following main characteristics: wingspan, 14.95 m, fuselage produced. It has the following main characteristics: wingspan, 14.95 m, fuselage produced. It has the following main characteristics: wingspan, 14.95 m, fuselage produced. It has the following main characteristics: wingspan, 14.95 m, fuselage produced. It has the following main characteristics: wingspan wing The speed flats 120 bm/hr, maximum towing speed with an airplane The slider is approved end by the saidby 1001 and and car gardestics. The language of the language o

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VLAYKOV, G. G.

"Stability of Plant Bending in an I-Beam Under Complex Loads." Cand Tech Sci, Kiev Construction Engineering Inst, 26 Nov 54. (PU, 14 Nov 54)

Survey of Scientific and Technical Dissertations Demended at USSR Higher Educational Institutions (11)

SO: Sum. No. 521, 2 Jun 55

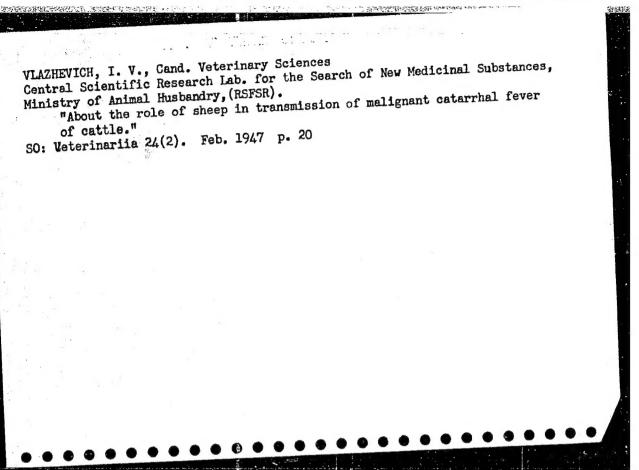
# VIAYKOV, G.G. Application of the principle of superposition (additivity) in problems involving the stability of plane deformation. Tekh.molod, 22 no.1:436(MLRA 7:1) 1. Kiivs'kiy inzherno-budivel'niy institut. Predataviv diyaniy chlen Akademii nauk Ukrains'koi RSE. (Deformations (Mechanics)

VLAYUK, P.A., akademik

Contribution of Ukrainian scientists to agriculture. Nauka i zhyttia (MIRA 14:12)

1. AN USSR; Vsesoyuznaya akademiya sel'skokhozyaystvennykh nauk imeni V.I.Lenina; Ukrainskaya akademiya sel'skokhozyaystvennykh nauk; prezident Ukrainskay akademii sel'skokhozyaystvennykh nauk. (Ukraine--Agricultural research)

CIA-RDP86-00513R001860320006-5



25(7)

PHASE I BOOK EXPLOITATION

SOV/2454

- Vlaznev, Yevgeniy Ivanovich, Sergey Vasil'yevich Podgornov, Valeriy Mikhaylovich Chernyshev, and Petr Gavrilovich Shelashov
- Normalizovannyve stanochnyve prisposobleniya; spravochnik konstruktora (Standard Machine Tool Fixtures; Designer's Manual) Moscow, Oborongiz, 1959. 439 p. 12,000 copies printed.
- Reviewer: Kh.L. Bolotin, Candidate of Technical Sciences; Ed.: V.V. Kuz'min, Engineer; Ed. of Publishing House: I.A. Suvorova; Tech. Ed.: N.A. Pukhlikova.
- PURPOSE: This manual is intended for designers of machine tool fixtures and engineers and technicians. It may also be useful to students of machinery-construction vuzes and tekhnikums.
- COVERAGE: The manual presents data on the standard structural design of machine tool fixtures. Reference material, materials used in manufacturing fixture components, standard types of fixture components, basic elements of fixture components, standard fixtures, hydraulic and air-operated actuating

Card 1/13

VLAZNEV, Yevgeniy Ivanovich; PODGORNOV, Sergey Vasil'yevich; CHERNYSHEV,
Valeriy Mikhaylovich; SHALASHOV, Petr Gavrilovich; GLIKMAN,
G.S., inzh., retsenzent; BOGOMOLOVA, M.F., red.izd-va;
PUKHLIKOVA, N.A., tekhn. red.

[Standardized machine-tool attachments] Normalizovannye stanochnye prisposobleniia; spravochnik konstruktora. Izd.2. perochnye prisposobleniia; spravochnye prisposobleniia; spravo

# "APPROVED FOR RELEASE: 09/01/2001 CIA

CIA-RDP86-00513R001860320006-5

LITVIN Grigoriy Il'ish; VLAZNEVA, Tat'yana Grigor'yevna;
KHENEVICH, V.M., kand. tekhn. nauk, dots., otv. rei.;
HESTERBIKO, A.S., red.

[Collection of problems on construction machines] Sbornik
zadach po stroitel'nym mashinam. Khar'kov, Izd-vo Khar'kovskogo univ., 1965. 50 p.

(MIRA 18:7)

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USSR/Diseases of Farm Animals. Diseases Caused by R-1 Viruses and Rickettsiae

Abs Jour : Ref Zhur-Biol., No 1, 1958, 2735

: Bogach I., Fednarzh B., Vlaznichka F. Author

: Not given Inst : Nonbacterial Infectious Diseases which Comp-Title rise the Complex of the so-called "Grippe" in

Hogs.

: Za sots. s-kh nauku, 1956, A5, No 4, 385-396 Orig Pub

: Piglet diseases which are clinically manifested Abstract by retarded development, exhaustion, and infection of the organs of respiration and blood circulation were studied. Occasionally there was

an affection of the nervous system manifested by atypical epileptiform attacks. Greatest morbitity was observed in piglets during the weaning period

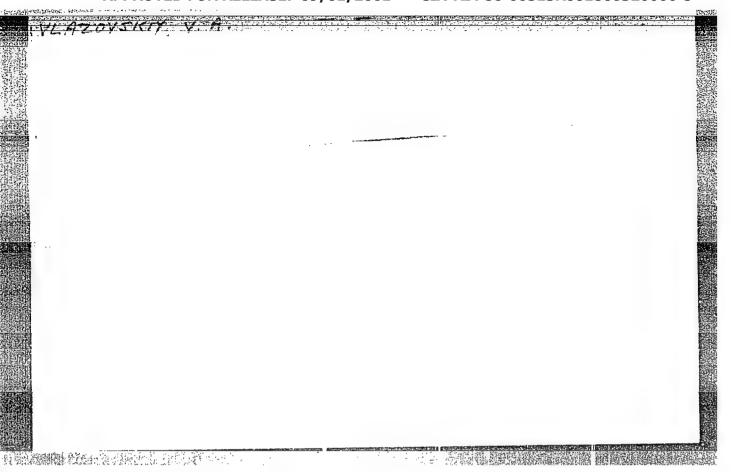
Card 1/3

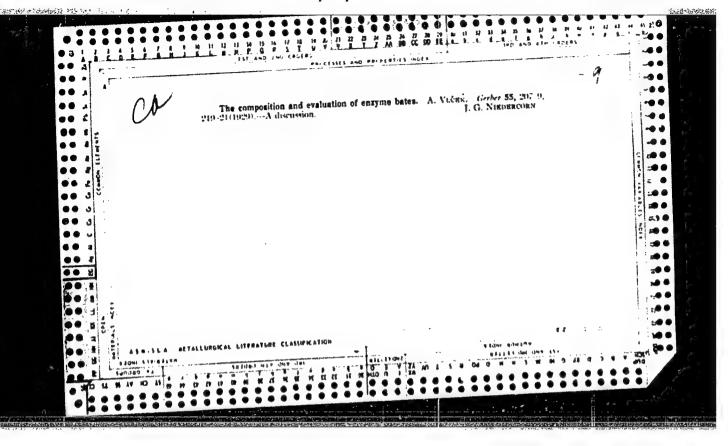
VLAZHEV, Yevgeniy Ivanovich; PODGORHOV, Sergey Vasil'yevich; CHERNYSHEV,
Valeriy Mikhaylovich; SHALASHOV, Petr Gavrilovich; BOLOTIN, Kh.L.,
kand.tekhn.nauk, retsenzent; KUZ'MIN, V.V., inzh., red.; SUYOROVA,
I.A., izdat.rad.; PUKHLIKOVA, N.A., tekhn.red.

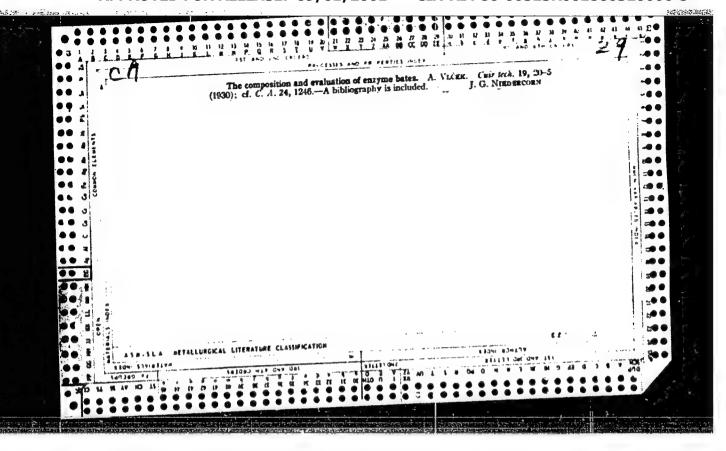
[Standardized machine-tool attachments; manual for designers]
Normalizovannye stanochnye prisposobleniia; spravochnik konstruktora.
Moskva, Gos.izd-vo obor.promyshl., 1959. 439 p. (MIRA 12:5)
(Machine tools--Attachments)

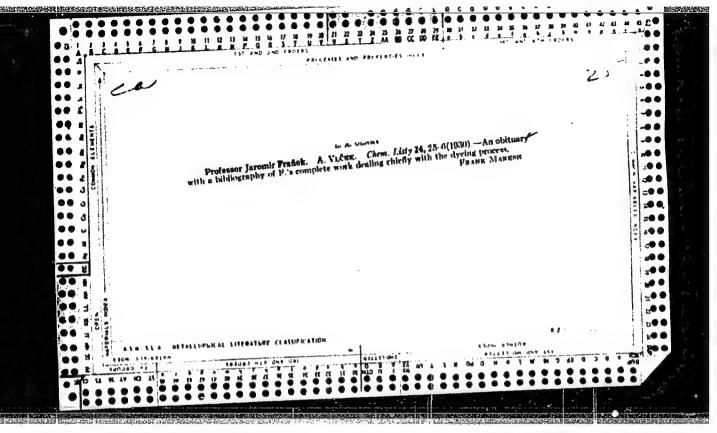
MACAT, Josef, inz.; VLAZNY, Antonin

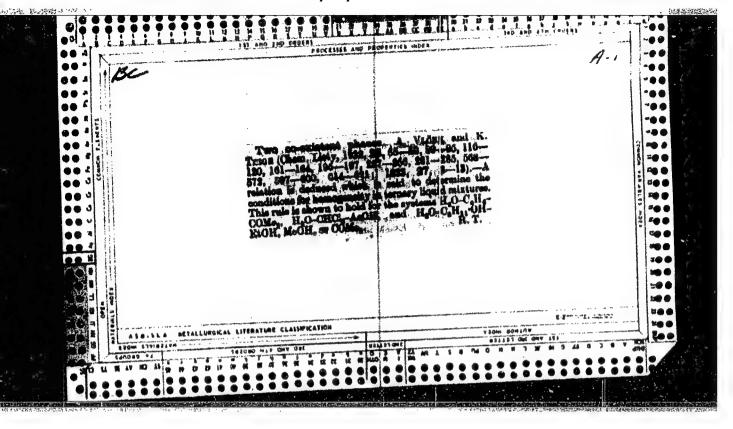
Technical development in repairing railway rolling stock. Zel dop tech 10 no.2:33-34 '62

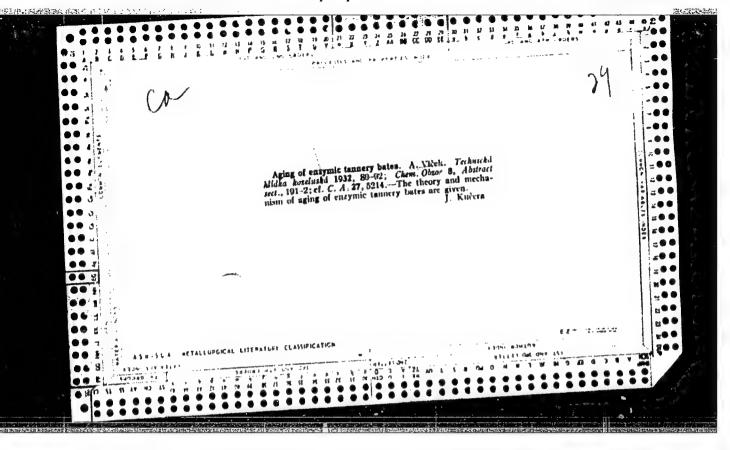


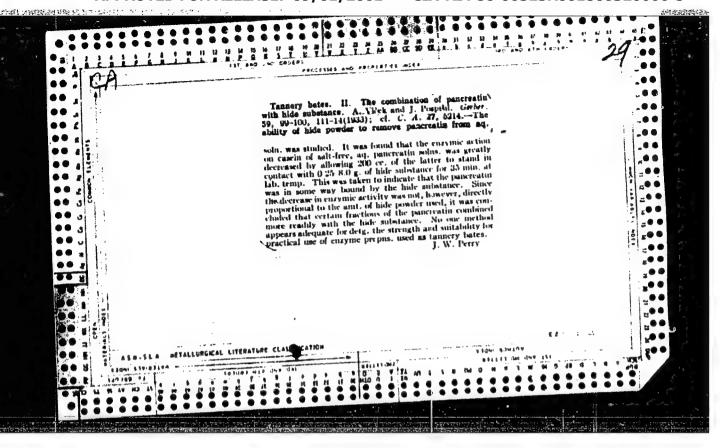


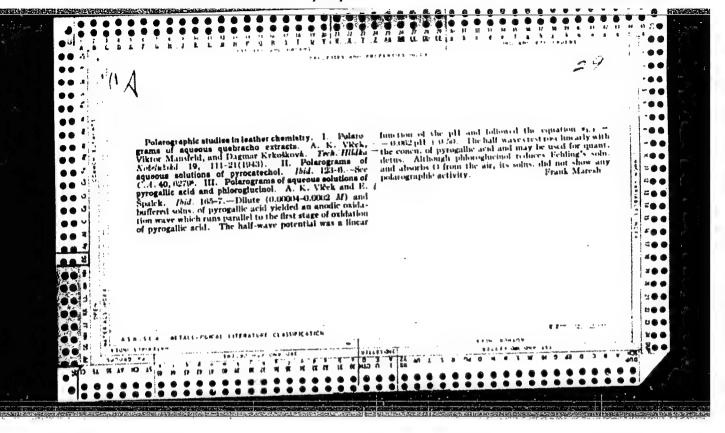






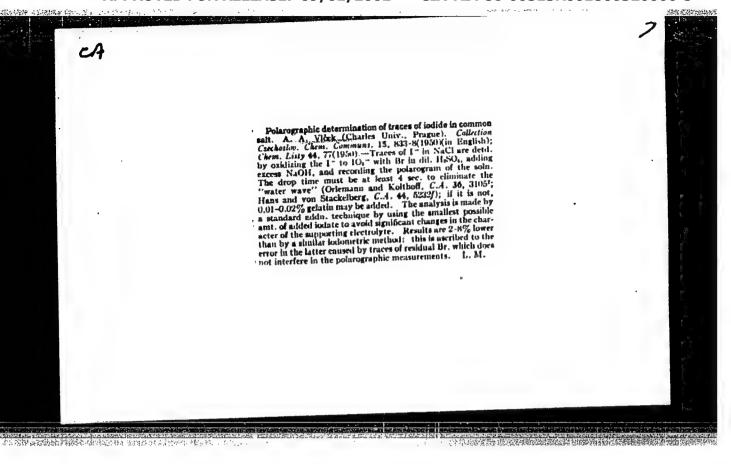


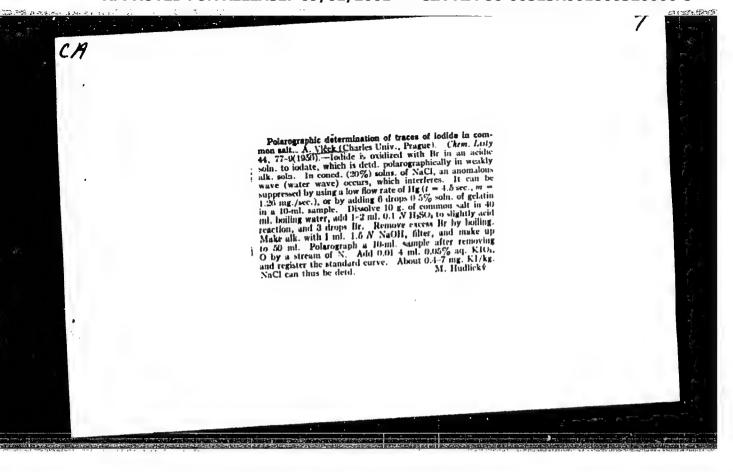




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	Shoring I. Merinarodniho polanografického slezu. Sboring I. Merinarodniho polanografického slezu. Frafersky prednesene na slezdu. Proceedings. vyd-vř [1952] Frafersky prednesene prednesene spraho princed Read at the Constress princed.	
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VLČEK, A. A.

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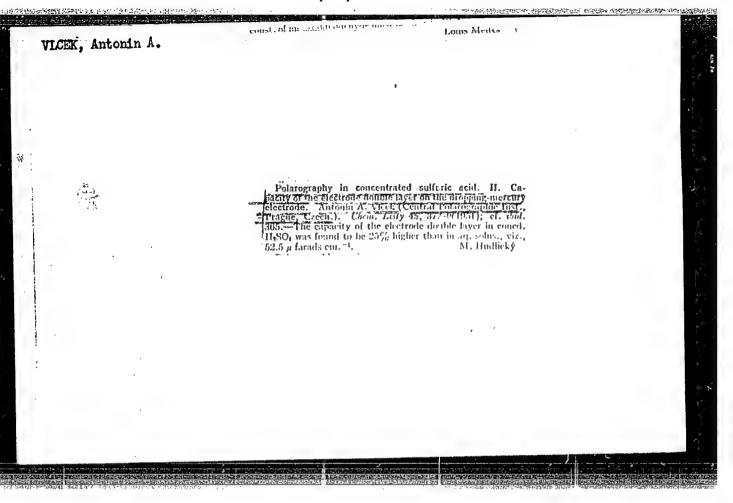
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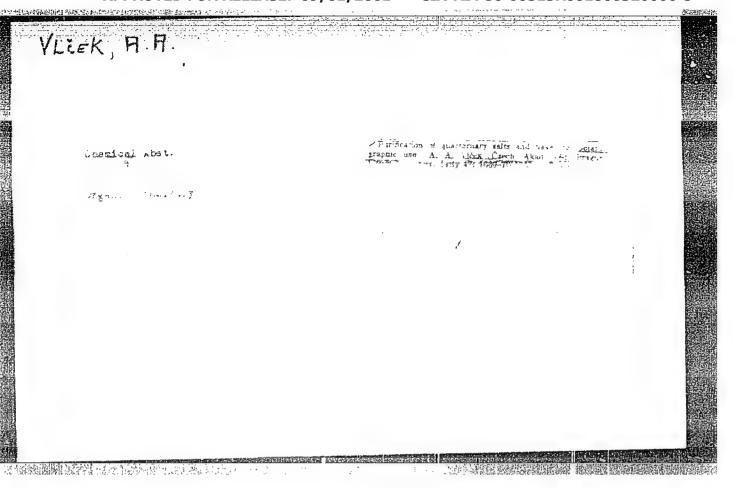
Central Polarographic inst., Prague, Czech.

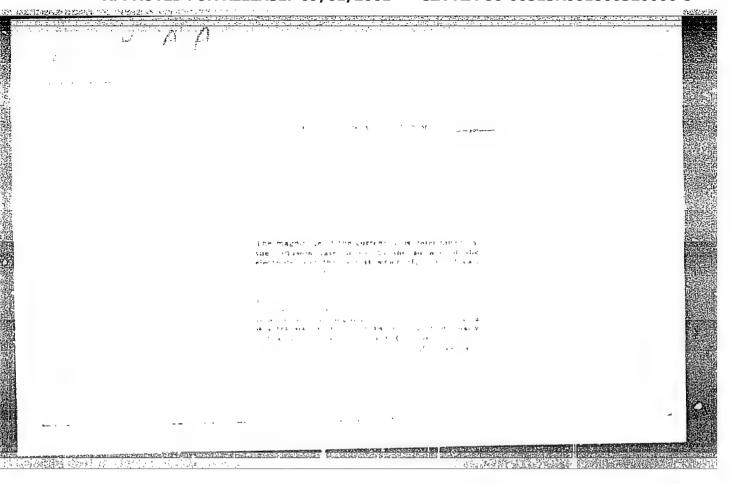
"Polarography in concentrated sulfuric acid."

Sbornik Mezinárod. Polarog. Sjezdu Praze, 1st Congr. 1951, Pt. III, Proc., 366-9 (in Czech), 370-3 (in Russian), 373-6 (in English).

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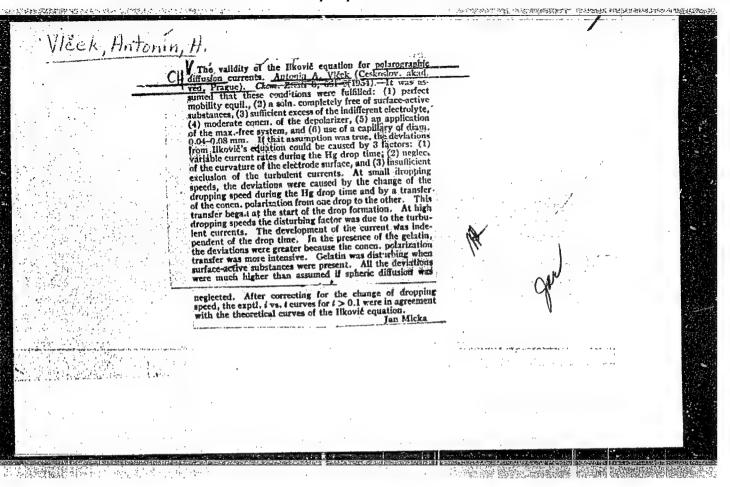




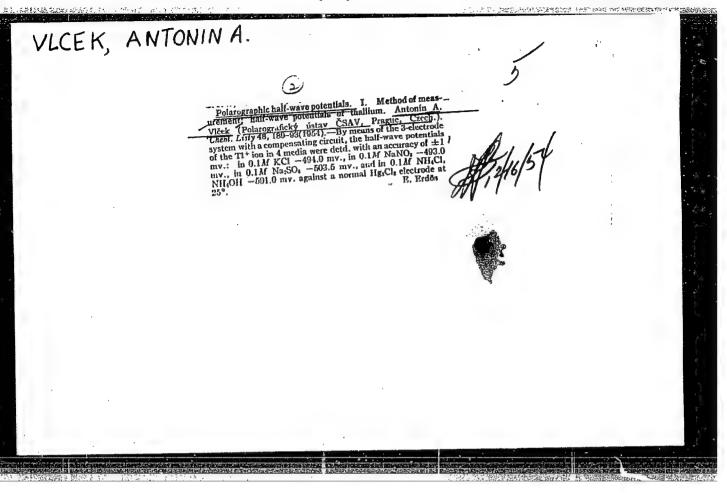


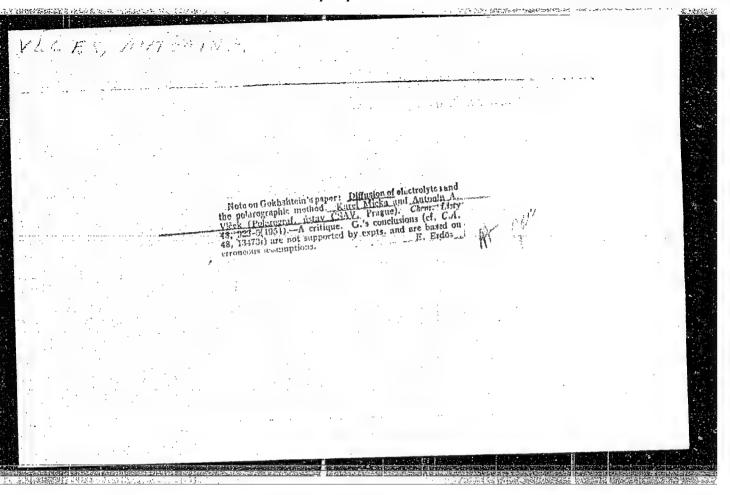
VLCEK, Antonin A
VLCEK, Antonin A
CZECH restrict of measure
Polarographic half-wave potentials. I. Mathod of meast half-wave potentials of thallium. Autonia A. urement, Vieta. Collection Cachodiae. Chem. Communs. 19, 802-7 (1957)(in German). See C.A. 48, 6283h E. J. C.

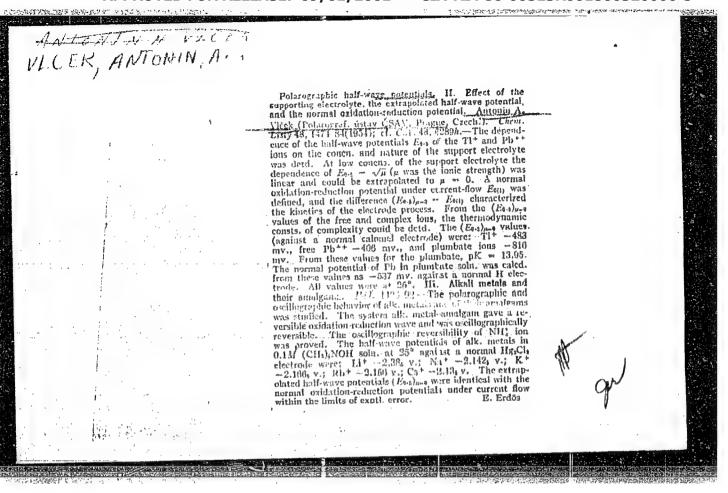
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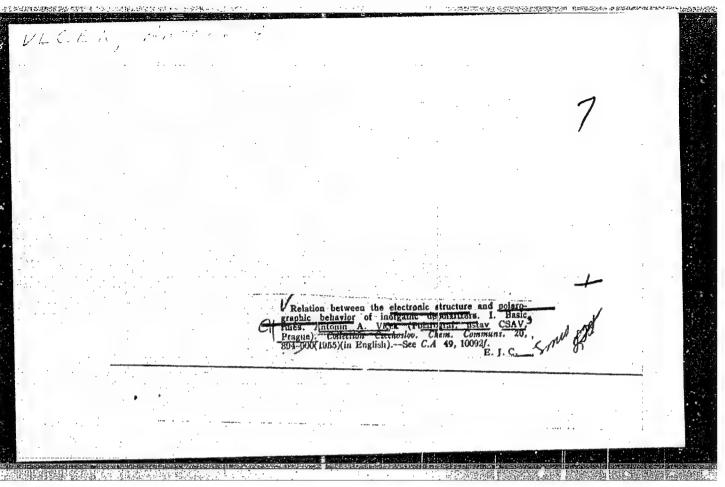


VLCEK, A.

Polarographic half-wave potentials. IV. Procedure for comparing half-wave potentials in different solvents. p. 1863

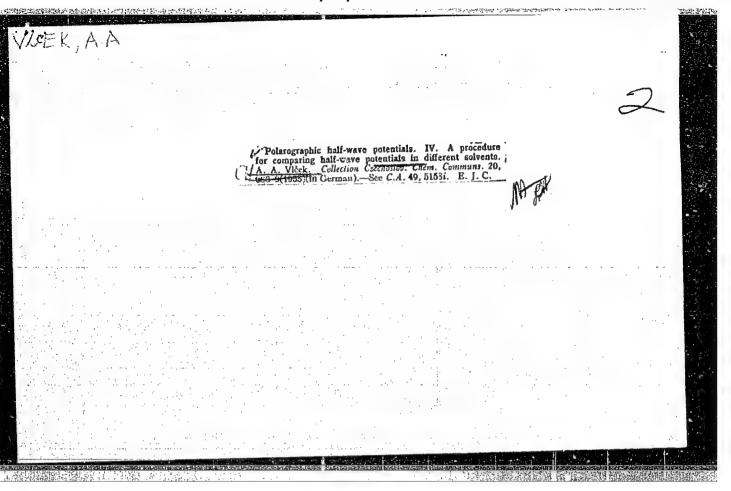
Vol. 48, no. 12, Dec. 1954 CHEMICKE LISTY Praha, Czechoslovakia

So: Eastern European Accession Vol. 5, No. 4, 1956



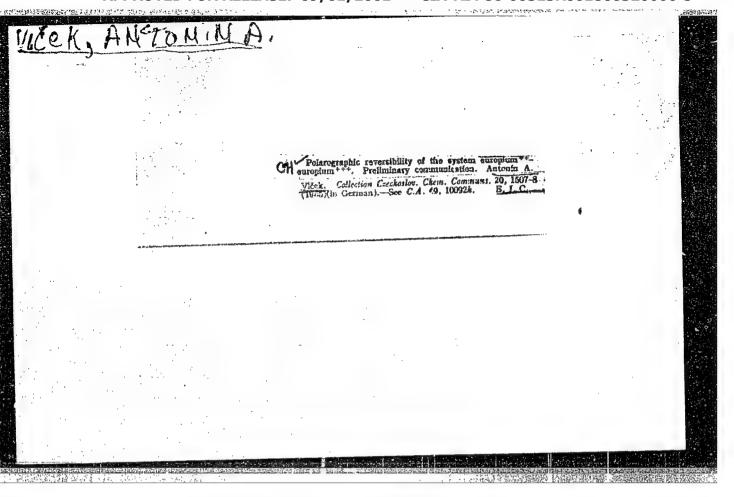
## "APPROVED FOR RELEASE: 09/01/2001

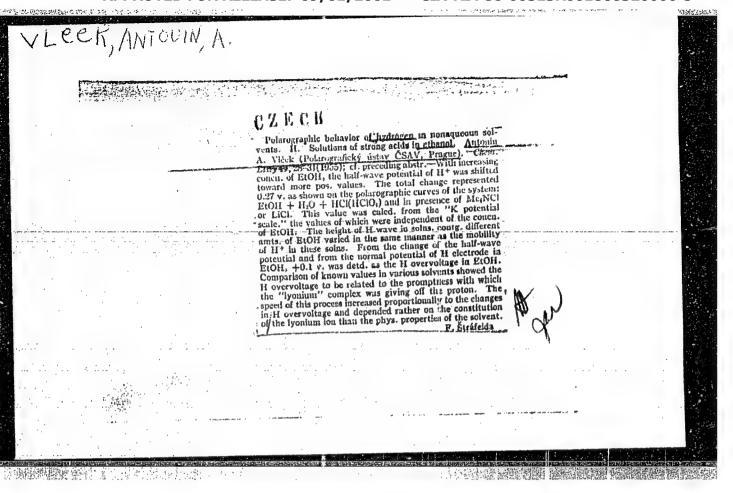
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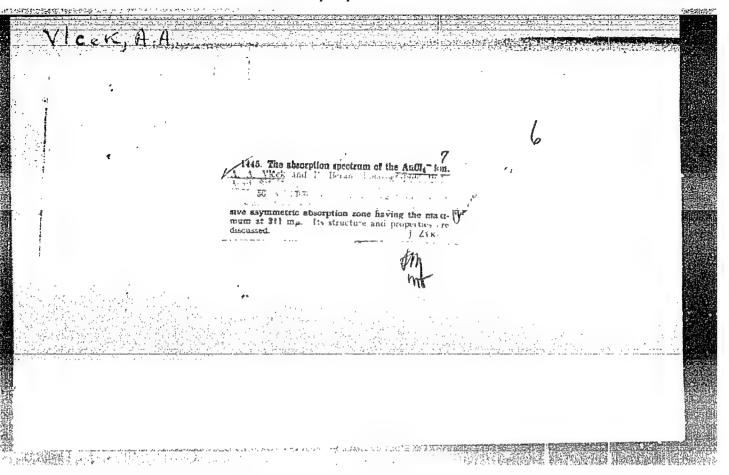
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l.	LCEK, A.A.	CZECH	
		Polsrographic behavior of tantaium in solutions of fluoride. A. A. Viček (Polsrographcký ústav ČSAV, Prague). Ckewo Listy 40, 250 (1955).—A soin, of Ta <sub>1</sub> O <sub>1</sub> in HF, polsrographed in a supporting electrolyte that is said, with NaF and contg. 5 × 10 <sup>-4</sup> M HF at least, gives a well developed wave of a height directly proportional to the conen. of Ta. The half-wave potential is -0.95 v.  P. Štráfelda	AN XXXII
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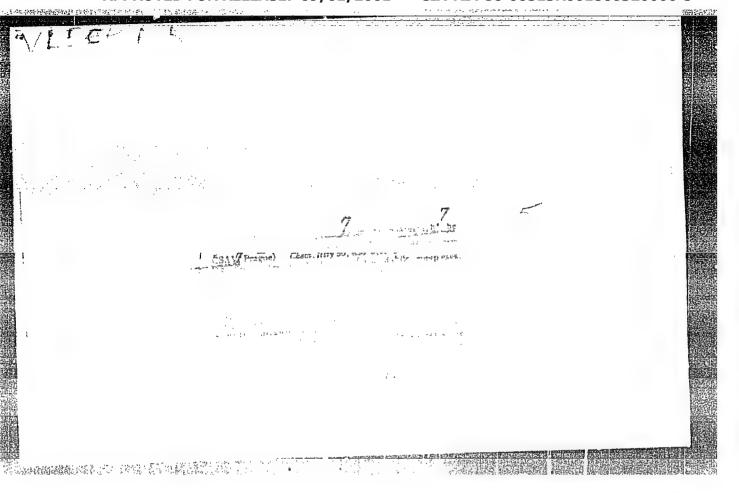




# VLCEK, A.A.

"Advances in inorganic chemistr" nd radiochemistry" edited by H.J.Emeleus, A.G.Sharpe. Vol. 3. Reviewed by A.A.Vlcek. Chem listy 57 no. 5:547-548 My 163.

"Progress in inorganic chemistry" edited by F.A.Cotton. Vol. 3. Reviewed by A.A.Vlcek. Ibid.: 548-549





VLCEK, A.

"Effect of basic electrolytes on the polarographic behavior of nickel ions; a preliminary communication." p. 828

Institute of Applied Physics., (Czechsolovak Academy of Sciences.) Vol. 50, no. 5, May 1956.

FAST

SO: Monthly Index of European Accession (EEAI) LC, Vol. 7, No. 5 May 1958

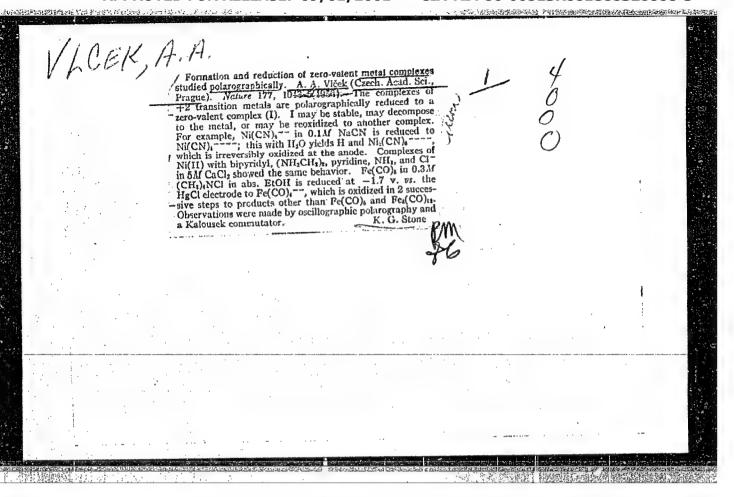
VICEK, A.

VLCEK, A. Tables of half-wave potentials of inorganic depoarizers. p. 400. Vol. 50, no. 3, Mar. 1956. CHEMICKE LISTY. Praha, Czechoslovakia.

SOURCE: East European Accessions List (EEAL) Vol. 6, No. 4--April 1957

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V.L.C.E.K., 1.1.1.

CZECHOSLOVAKIA/Physical Chemistry - Electrochemistry.

B-12

Abs Jour

: Re? Zhur - Khimiya, No 5, 1958, 13913

Author

: A.A., Vlack

Inst

Title

: Relations between the Electronic Structure of Inorganic

Repolarizers and Their Polarographic Behavior. II.

Complex Cyanides of Nickel.

Orig Pub

: Sh. whakkosl. khim. rabot, 1957, 22, No 3, 948-960

Abstract : Ses RZbKhim, 1957, 40780.

Card 1/1

VLCEK, A.; HEYROVSKY, J.

Significance of the Ilkovic equation in electrochemistry. p. 3. (Matematicko-Fyzikalny Casopie, Vol. 7, No. 1, 1957, Bratislava, Czechoslovakia)

SO: Monthly List of East European Accessions (EEAL) LC, Vol. 6, No. 8, Aug 1957. Uncl.

CZECHOSLCVAKIA/Physical Chemistry. Electrochemistry.

B-12

Abs Jour: Ref Zhur-Khin., No 13, 1958, 42705.

Author : Vlcek A. A.

Inst

Title : Relations Between the Electronic Structure and Polaro-

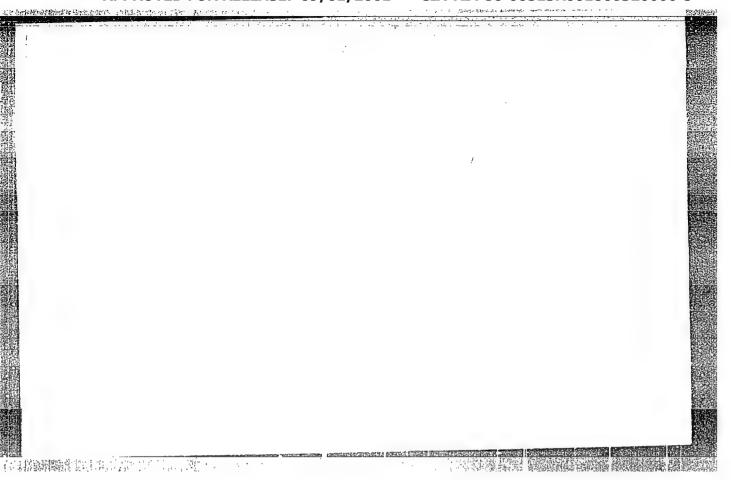
graphic Behavior of Inorganic Depolarizers. III.

Electrode Processes Involving Unstable Intermediates.

Orig Pub: 3b. chekhosl. khim. rabot, 1957, 22, No 6, 1736-1746.

Abstract: See RZhKhim, 1957, 44188.

Card : 1/1



VICEK, A.

A symposium on rare elements.

p. 295 (Chemie, Vol. 9, no. 2, Apr. 1957, Fraha, Czechoslovakia)

Monthly Index of East European Accessions (EE/I) IC. Vol. 7, no. 2, February 1958

# VICEK, A.

Inorganic oxidation and reduction exchange reactions.

p. 305 (Chemie, Vol. 9, no. 3, June 1957, Praha, Czechoslovakia)

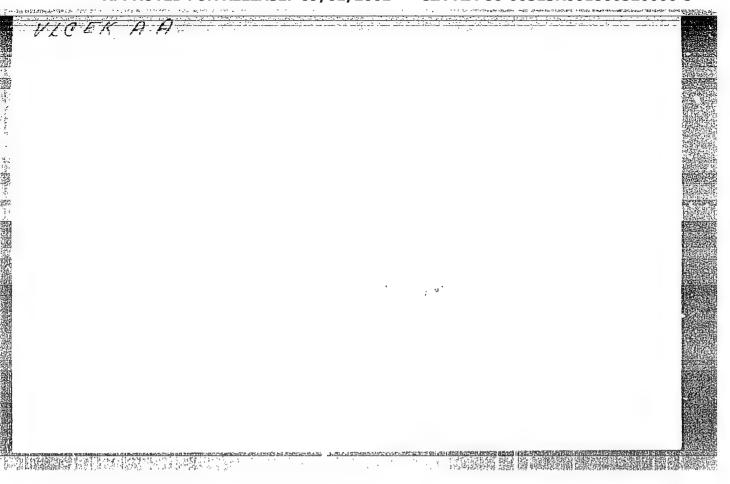
Monthly Index of East European Accessions (EEAI) LC. VOL. 7, no. 2, February 1958

## VLCEK, A.

"Relation between the electron structure of inorganic depolarizers and their polarographic behavior. II. Complex nickel cyanides. In English."

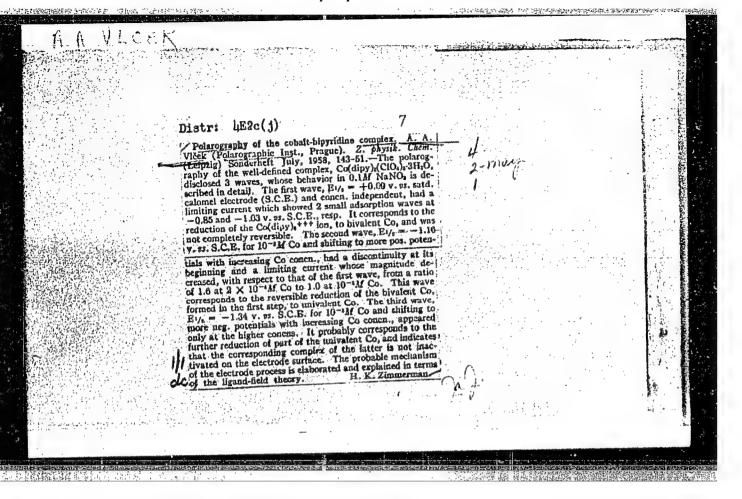
p. 948 (Collection of Czechoslovak Chemical Communications. Sbornik Chekhoslovatskikh Khimicheskikh Rabot.) Vol. 22, no. 3, June 1957. Prague, Czechoslovakia

SO: Monthly Index of East European Accessions (EEAI) LC. Vol. 7, no. 4, April 1958



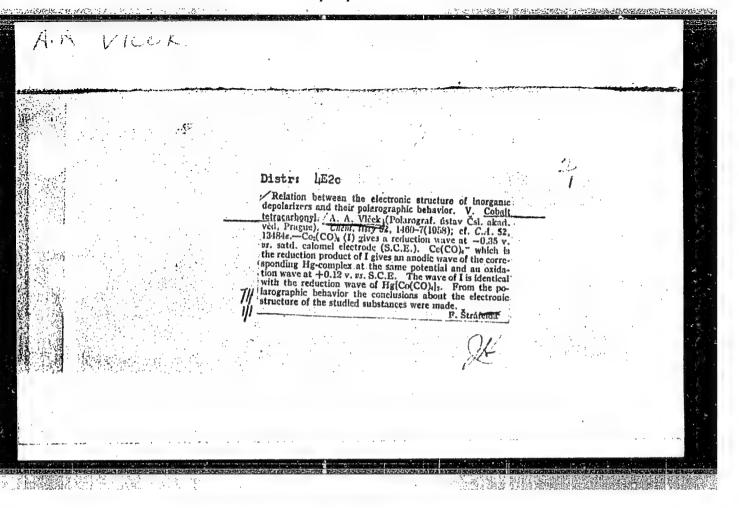
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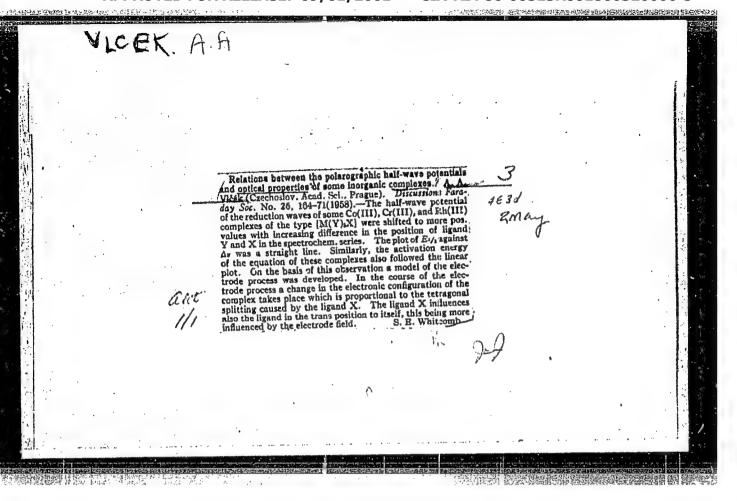
Taking A.

SCIENCE

Feriodical CHEMICKE LISTY. Vol. 52, no. 2, Feb. 1958.

VICER, A. Relation between the electron structure of inorganic depolarizers and their polarographic behavior. IV. electrode processes in which (n-2)f electrons take part. p. 214.

Monthly List of East European Accessions (REAL) LC, Vol. 5, no. 3, March, 1959. Uncl.



- CZECHOSLOVAKIA / Physical Chemistry. Electrochemistry. B-12

Abs Jour: Ref Zhur-Khimiya, No 23, 1958, 76832.

Author : Vlcek A. A. Inst : Not given.

Title : The Relationship Between Electronic Structure

and Polarographic Behavior of Inorganic Depolarizers. IV. Electrode Processes Involving the Participation of (n-2) f-Electrons.

Orig Pub: Chem Listy, 52, No 2, 214-227 (1958) (in Czech).

Abstract: As a rule, the oxidation of Eu2/ions proceeds

at more positive E values than the reduction of Eurions, i.e., the reaction is irreversible. The difference between the half-wave potentials of the cathodic and the anodic

waves as well as the form of the waves depends on the background. Halides produce a shift in  $\rm E_{1/2}$ 

Card 1/4

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CZECHOSLOVAKIA / Physical Chemistry. Electrochemistry. B-12

Abs Jour: Ref Zhur-Khimiya, No 23, 1958, 76832.

Abstract: and also affect the slope of the waves. At high halide concentrations (e.g., 7M /sic/ Cl or 0.05M I) the difference between the  $E_{1/2}$ of the anodic and of the cathodic wave is so small that a single anodic-cathodic wave is obtained, the slope of which however differs from that required by the theory. A single reversible wave is obtained only in the case of ethylenediaminetetraacetic acid solutions. The current in the lower portion of the anodic and of the cathodic wave is of kinetic character /diffusion current/ at constant E. As the time between drops increases the half-wave potential of the cathodic wave is shifted in the positive direction while that of the anodic wave is shifted to more negative values. The slope of the cathodic wave decreases with decreasing time

Card 2/4

57

- CZECHOSLOVAKIA / Physical Chemistry. Electrochemistry. B-12

Abs Jour: Ref Zhur-Khimiya, No 23, 1958, 76832.

Abstract: electrode and the central ion. The presence of excited Eu2/ ions at the electrode is as-

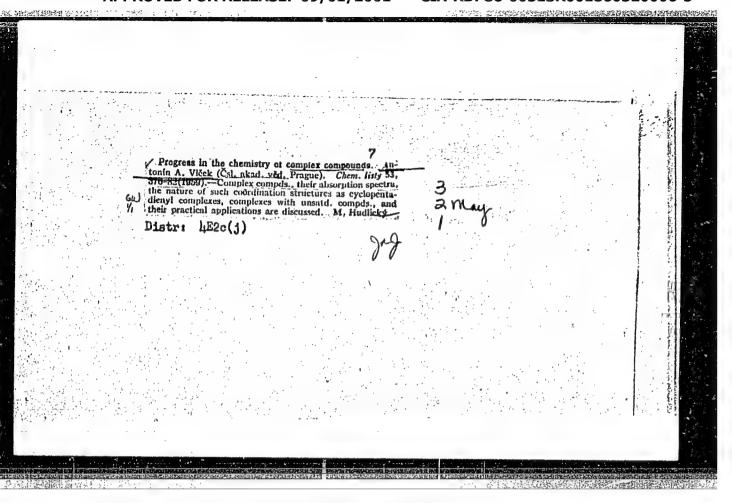
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#### "APPROVED FOR RELEASE: 09/01/2001

#### CIA-RDP86-00513R001860320006-5



VLCEK, A.

"Progress in the chemistry of complex compounds." p. 376.

CHEMICKE LISTY. Praha, Czechoslovakia, Vol. 53, no. 4, Apr. 1959.

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"Present problems of photographic chemistry." p. 365.

CHEMICKE LISTY. Praha, Czechoslovakia, Vol. 53, no. 4, Apr. 1959.

Monthly List of East European Accessions (EEAI), LC, Vol. 8, No. 8, August, 1959. Uncl.

8-12 : Czechoslovakia COUNTRY CATEGORY : RZKhim., No. 21 1959, No. 74378 ABS. JCUR. : Vlcek, A. A. ROETUA : Not given INST. : Relationship Between Electronic Structure and TITLE Polarographic Behavior of Inorganic Depolarizers.

IV. Electrode Processes Involving (n-2) f-Electrode Collection Czechoslov Chem Commun, 24, No 1, ORIG. PUB. 181-197 (1959) : See RZhKhim, 1958, No 23, 76832. ABSTRACT \*trons CARD: 1/1 59

VLCEK, A.

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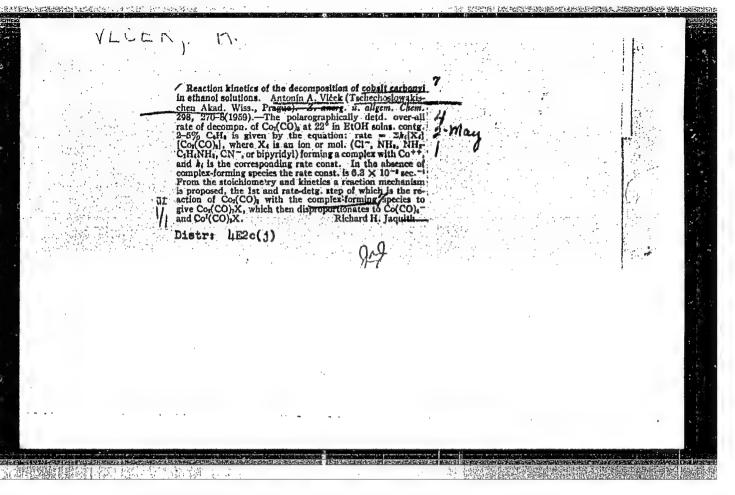
"Relation between electronic structure and the rolarographic behavior of incrganic depolarizers" IV. Electrode processes in which (n-2)f-electrons take part. In German. p. 181.

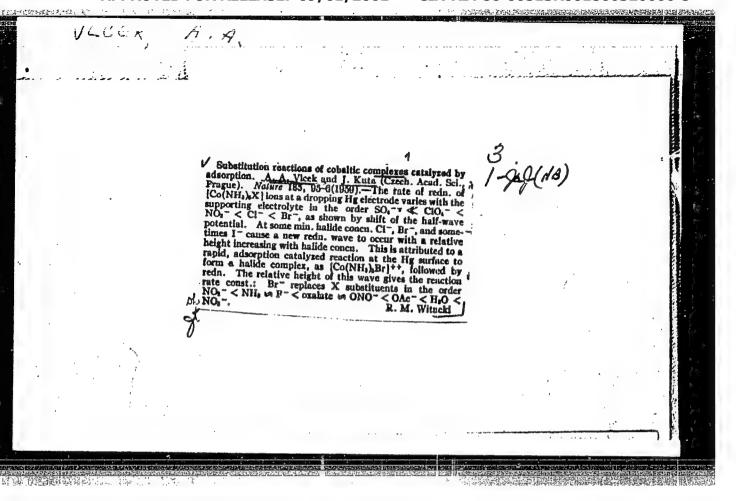
CCILECTICN CF CZECHOSLOVAK CHEMICAL COMMUNICATIONS, Praha, Czech., Vol. 24, No. 1, Jan. 1959.

Monthly List of East European Accessions (EEAI), LC, Vol. 8, No. 6, Sept. 59 Unclassified

#### "APPROVED FOR RELEASE: 09/01/2001

#### CIA-RDP86-00513R001860320006-5





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ORIG. PUB.	8 (	Collection Czechoslov Chem Commun, 1756 (1959)	24, No 6, 1748-
ABSTRACT		See RZhKhim, 1959, No 18, 63845.	
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Relation between electronic structure and polarographic behavior of inorganic depolarizers. VII. Determination of activation energy of electrode processes. In English. Goll.Cz.Chem. 24 no.11:3538-3547 N 159. (ERAI 9:5)

1. Polarographic Institut, Czechoslovak Academy of Science, Prague.
(Polarograph and polarography) (Electrons) (Inorganic compounds)
(Electrodes) (Depolarizers)

BERAN, P.: VLCEK, A.A.

Polarographic control of substitution reactions of inorganic complexes.

I. Reaction of AuCl4 ions with ethylenediamine. In German. Coll.Cz.Chem.
24 no.11:3572-3578 N 159. (REAI 9:5)

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1. Institut fur analytische Chemie, Karlsuniversitat und Polarogrphisches Institut, Tschechoslowakische Akademie der Wissenschaften, Prag. (Polarograph and polarography) (Inorganic compounds) (Ions) (Ethylenediamine) (Gold chlorides)

"Polarography as an Indirect Method of Investigation of the Structure of Coordination Compounds," Prague, Chemicke Listy, No. 12, Dec 60, p. 1237.

Affiliation: Polarographic Institute, CSAV, Prague.

VLCEK, Antonin A. ....

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5.2620 AUTHOR:

Antonín A. Vlček

CZECH/8-59-12-2/15

TITLE:

Reactivity and Mechanism of Substitution Reactions of

Inorganic Complexes

PERIODICAL: Chemické listy, 1959, Nr 12, pp 1139-1247

ABSTRACT:

This article was given as a lecture on July 2, 1959 at a conference on inorganic chemistry at Bratislava.

The chemistry of solutions of inorganic substances is basically the chemistry of coordination. The question of stability and composition of various complexes in solution has, in the past, been paid considerable attention with the result that present knowledge in this field is, on the whole, satisfactory. Somewhat later and in less detail, the studies of mechanism of reaction of complexes in solution were commenced: they have practical as well as theoretical significance. The instantaneous reactions, involving inorganic complexes in solution, have been reviewed in the previous paper (Ref 1). The reviewer, here deals with relatively slow reactions. Kinetic parameter values are very often missing, eg temperature dependence data. Recent collections of data suggest a

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CZECH/8-59-12-2/15 Reactivity and Mechanism of Substitution Reactions of Inorganic Complexes

parallelism between substitutions in organic reactions and in inorganic complex compounds. The Ingold classical concepts of organic substitutions (Ref 2 and Nucleophilic reactions may proceed by two mechanisms  $-S_N1$  and  $S_N2$ . In the course of an S<sub>N</sub>l type mechanism an activated complex is formed without the participation of a ligand substitution, eg with a reduction of coordination number whilst characteristically an SN2 mechanism directly involves ligand substitution in the activated complex formation. In the latter case, the formation of an M-Y bond weakens the M-X bond. difficult to decide whether an  $s_N l$  or  $s_N 2$  mechanism is involved. This is then considered further. illustrates the course of substitution via mechanisms S<sub>N</sub>1 and S<sub>N</sub>2. Taube (Ref 3), using expanded Pauling models, differentiated between labile and inert complexes according to d orbit occupation. Table I gives the electronic configurations of labile and inert complexes after Ref 3.  $S_N$ 1 and  $S_N$ 2 mechanisms are then considered in the light of this and Taube's work is considered to be

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CZECH/8-59-12-2/15

Reactivity and Mechanism of Substitution Reactions of Inorganic Complexes

of qualitative value only. The basic shortcoming of Taube's scheme is then dealt with. Table II gives the velocity of hydration for complexes of the configuration  $d^2d^2d^2D^2SP^3$ ;  $k_{H_2O}$  (S<sup>-1</sup>) at pH1; 25°C (after Ref 3). More fundamental explanations of the relationship between velocity and structure has been advanced on the basis of Basolo and Pearson's (Ref 4) theory of crystal poles. Theoretical calculations of simplified examples have been produced and Table III gives the change of stabilization energy (in Dq units) for reactions of complexes of the transitional metals under conditions of the so-called strong crystal pole (after Basolo and Pearson (Ref 4) ). Activation energy of the process: Ea = (a-b).Dq. But even this theory does not suffice since it only allows a more detailed estimate to be made along the lines of Ref 3. The author advances the hypothesis, taking into consideration the connection between structure of the complex and its reactivity, that the activation energy of the reaction will be linked in a certain way with parameters describing the given complex

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CZECH/8-59-12-2/15 Reactivity and Mechanism of Substitution Reactions of Inorganic Complexes

in its basic or excited state, or in certain cases with those describing the change between the basic and excited states. The relationship Q = const ( $E_{basic} - E_{excited}$ ) is found to hold for a series of closely related complexes (Ref 5). Fig 2 gives the dependence of hydration activation energy for various series of complexes on their excitation energy: a. Series of trans - Co en<sub>2</sub>X<sub>2</sub> + H<sub>2</sub>O, Q = 0.6V; b. Series of  $Co(NH_3)_5X + H_2O$ , Q = 0.47V; c. Series of  $Cr(NH_3)_5X + H_2O$ , Q = 0.42V. Various aspects of substitution are then considered further. Fig 3 gives the dependence of the velocity constant of a complex series

 $\left[ \text{Pt}(NH_3)_{4-n} \text{Cl}_n \right]^{2-n}$ 

(after Grinberg, Ref 6). A: K2 [Pt Cl4], B: K[Pt NH3 CL3], C: [Pt(NH3)2Cl2], D: [Pt(NH3)3Cl] Cl. The author claims that the experimental dependences found may be generalized and a hypothetical model process for substitution reactions of complexes proposed. These are then examined in the

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CZECH/8-59-12-2/15

Reactivity and Mechanism of Substitution Reactions of Inorganic Complexes

light of the theories of Ref 4. The relationship between activation energy of the reaction and the polarizability of the complex are then examined (cf Ref 8). The trans effect (Ref 9 cf Ref 7) is then dealt with briefly. Table IV gives the representation of various stereoisomers in the reactions of certain complexes (after Basola, Ref 4). The author deduces that these results show that the activation process occurs via two mechanisms which lead to different stereoisomers. Ref 3 envisages the course of the  $S_Nl$  mechanism as that of Eq (2) to (4) for alkaline hydrolysis but the author concurs with Ingold (cf Ref 2) in that he considers the mechanism to be  $S_N2$  in this case. There are 3 figures, 4 tables and 9 references, 3 of which are Czech, 4 English and 2 Soviet.

ASSOCIATION: Polarografický ústav ČSAV, Praha (Polarographic Institute, Czechoslovak Academy of Sciences, Prague)

Card 5/5

VICEK, A.A.

The 6th International Conference on Coordination Chemistry in Detroit, 1961. Vestnik CSAV 71 no.1:130-132 '62.

为为"三年"的《开口》中,在这些社会的的"推动"的地位是各种企业的企业的特别的企业

KONRÁD, D; VLČEK, A. A;

Czechoslovakia

Department of Inorganic Chemistry, J. E. Purkyně Universtiy, Brno and Polarographic Institute, Czechoslovak Academy of Science -- Prague - (for all)

Prague, Collection of Czechoslovak Chemical Communications, No 4, 1963, pp 808-827

"Study of the Cobalt (II) - Cobalt(III) Ethylene-diamine System."

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Potentiometric study of the Go (II)-Co(III)-ethylenediamine systems Goll Cz Chem 28 no.3:595-604 Mr 163.

1. Polarographic Institute, Czechoslovak Academy of Sciences, Prague.

CZEC OSLOVANIA

REICHL, J.; KOCI, S.; VLCEK, A.; Institute of Physiology of Domestic Animals (Ustav Fysiologie Hospodarskych Zvirat) A /Abbreviation not explained / Faculty (F), College of Agriculture (VSZ), Brno; Poultry Research Institute (Vyskumny Ustav pre Chovials (Vyzkumny Ustav Krmivarsky), Pohorelice.

"Study of Energy Values of Poultry Fodder."

Prague, <u>Ceskoslovenska Fysiologie</u>, Vol 15, No 5, Sep 66, pp

Abstract: Experiments were conducted with white Plymouth chickens 4-5 weeks old. Intake of dry material, protein and calories was determined. The intake and retention of the materials increased with an increasing ratio of calories to proteins, and decreased when the content of cellulose of the fodder was increased. 2 Western references. Submitted at 3 Days of Physiology of Domestic Animals at Liblice, 9 Dec 65.

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ACCESSION NR: AP5025846

CZ/0008/65/059/005/0561/0577

AUTHOR: Vicek, Antonin A.

TITLE: Reactions of coordination compounds

SOURCE: Chemicke listy, v. 59, no. 5, 1965, 561-577

TOPIC TAGS: coordination chemistry, chemical reaction

Abstract: All the reactions of coordination compounds may be classified in 4 big groups: 1. The reaction of the introduction or exchange of a ligand (primary change located on the central atom); 2. reaction of a combined ligand (primary change located on the ligand); 3. isomerisation reaction, racemization (only stereochemical changes take place in the complex); 4. oxidation-reduction reactions (the primary change concerns only the number of electrons, but this of course can induce a series of further changes in the complex part). Coordination reactions are characterized by the following: the ligand entering into a reaction; the ligand is discrete structural particle throughout the reaction; the ligand is

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ACCESSION NR: AP5025846
a stable unit in the given medium, or is electronically saturated in the original condition; the reaction produces coordination compounds with orbits of sigma symmetry. Only reactions that were realized are discussed in the article. Orig. art. has 49 formulas.

ASSOCIATION: Polarograficky ustav J. Heyrovskeho CSAV, Prague (Polarographical Institute of J. Heyrovsky, Czechoslovak Academy of Sciences)

SUBMITTED: OO ENCL: OO SUB CODE: GC

NO REF SOV: CO2 OTHER: O31 JPRS

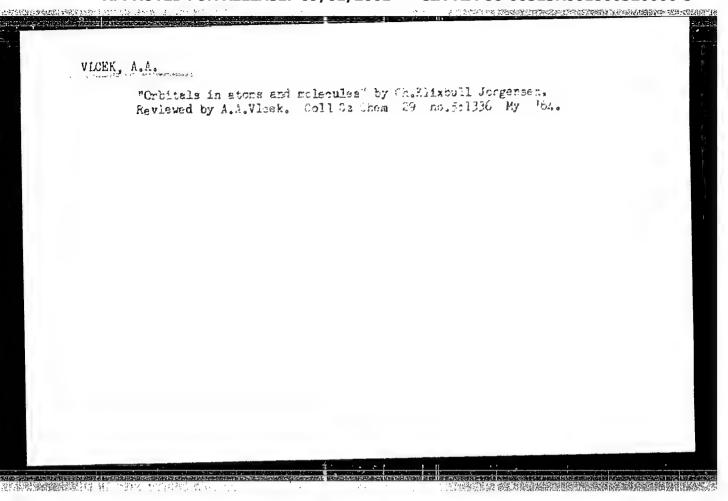
VLCEK, Antonin A.

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1. J. Heyrovsky Institute of Polarography of the Gzechoslovak Academy of Sciences, Prague.

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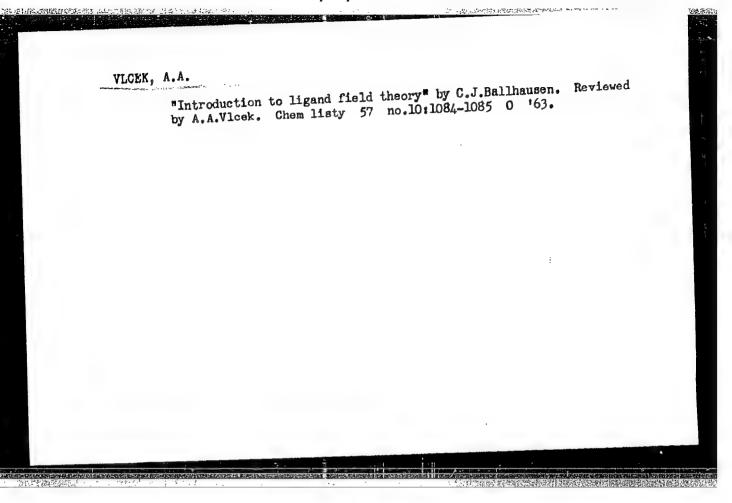


### VLCEK, A. A.

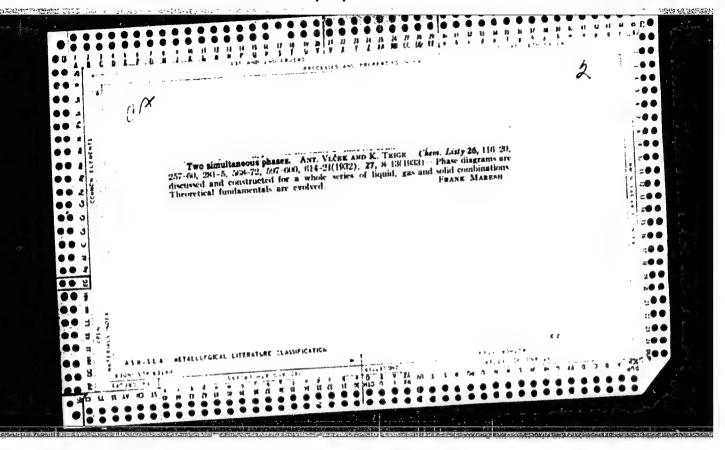
"Metal x-complexes with di- and oligolefinic ligands" by E. O. Fischer, H. Werner. Reviewed by A. A. Vlcek. Chem listy 58 no. 2:242 F '64.

"Progress in inorganic chemistry." Reviewed by A. A. Vlcek. Ibid.: 243-244.

"Advances in inorganic chemistry and radiochemistry." Reviewed by A. A. Vlcek. Ibid.: 244.



# VLCEK, A.A. "Absorption spectra and chemical bonding in complexes" by C.K. Jorgensen. Reviewed by A.A.Vlcek. Chem listy 57 no.8:854-855 Ag \*63.



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Polarographic study of the cobalt(II)-cobalt(III) ethylenediamine system. Coll Cz Chem 28 no.4:808-828 Ap 163.

1. Polarographic Institute, Czechoslovak Academy of Sciences, Prague.

